

# Lipid Profiles & NSW

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NSWG-2  
16 July 2008

Report Documentation Page			Form Approved OMB No. 0704-0188		
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1. REPORT DATE <b>16 JUL 2008</b>		2. REPORT TYPE <b>N/A</b>		3. DATES COVERED <b>-</b>	
4. TITLE AND SUBTITLE <b>Lipid Profiles and NSW</b>				5a. CONTRACT NUMBER	
				5b. GRANT NUMBER	
				5c. PROGRAM ELEMENT NUMBER	
6. AUTHOR(S)				5d. PROJECT NUMBER	
				5e. TASK NUMBER	
				5f. WORK UNIT NUMBER	
7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES) <b>Naval Special Warfare Group Two</b>				8. PERFORMING ORGANIZATION REPORT NUMBER	
9. SPONSORING/MONITORING AGENCY NAME(S) AND ADDRESS(ES)				10. SPONSOR/MONITOR'S ACRONYM(S)	
				11. SPONSOR/MONITOR'S REPORT NUMBER(S)	
12. DISTRIBUTION/AVAILABILITY STATEMENT <b>Approved for public release, distribution unlimited</b>					
13. SUPPLEMENTARY NOTES <b>Warfighter Nutrition Workshop 15-16 July 2008 (USUHS), The original document contains color images.</b>					
14. ABSTRACT					
15. SUBJECT TERMS					
16. SECURITY CLASSIFICATION OF:			17. LIMITATION OF ABSTRACT <b>UU</b>	18. NUMBER OF PAGES <b>6</b>	19a. NAME OF RESPONSIBLE PERSON
a. REPORT <b>unclassified</b>	b. ABSTRACT <b>unclassified</b>	c. THIS PAGE <b>unclassified</b>			

# Study

- Reviewed age, height, weight, total cholesterol, LDL, HDL and Triglycerides in 85 SEAL physicals conducted in CY 2007.
- Compared results with ATP-III standards for Cholesterol and LDL.
  - Target for cholesterol < 200 mg/dl
  - Target for LDL < 130 mg/dl

# Results

- Avg Age: 32.83 (21-52)
- Avg Cholesterol: 186.6 (108-312)
- Avg LDL: 119.9 (70-221)
  
- 22/85 (25.9%) Total Chol > 200
- 23/85 (27.1%) LDL > 130

# Biases

- Age
  - 5 years AD, Retirement Physicals included
- Medications
  - Excluded personnel known to be on meds
- Fasting
  - Assumed patients fasted appropriately

# Significance

- Increased serum cholesterol significantly associated with increased risk of death before age 50 (Klag, et al, NEJM, 1993)
- Men < 39 y/o with serum cholesterol > 200 have increased overall mortality
  - > 240 = 2.10 to 3.63 RR of CHD or CVD death
- Men < 39 y/o with chol < 200 = 3.8 to 8.7 years of life (Stamler, et al, JAMA, 2000)
- “Grow the Force”

# Treatment

- Therapeutic Lifestyle Changes
  - Reduce Sat Fats/Cholesterol
  - Reduce Body Weight
  - Increase stanols/sterols and fiber
  - Increase physical activity
- Prefer to avoid statins
  - Lifelong medication
  - Assoc with muscle pain